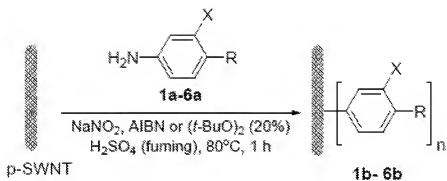


Scheme 1



- 1a.** R = H, X = H to **1b.** R = SO<sub>3</sub>H, X = H  
**2a.** R = NO<sub>2</sub>, X = H to **2b.** R = NO<sub>2</sub>, X = SO<sub>3</sub>H  
**3a.** R = Cl, X = H to **3b.** R = Cl, X = SO<sub>3</sub>H  
**4a.** R = *t*-butyl, X = H to **4b.** R = *t*-butyl, X = H and SO<sub>3</sub>H (~1:1)<sup>a</sup>  
**5a.** R = CH<sub>2</sub>CH<sub>2</sub>OH, X = H to **5b.** R = CH<sub>2</sub>CH<sub>2</sub>OH, X = SO<sub>3</sub>H<sup>b</sup>  
**6a.** R = SO<sub>3</sub>H, X = H to **6b.** R = SO<sub>3</sub>H, X = H

Fig. 1

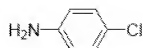
2/11  
REPLACEMENT SHEET



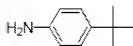
1a



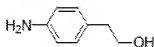
2a



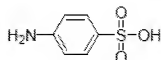
3a



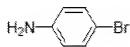
4a



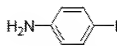
5a



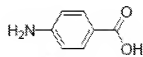
6a



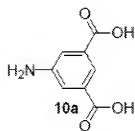
7a



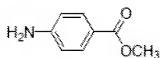
8a



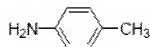
9a



10a



11a



12a

Fig. 2

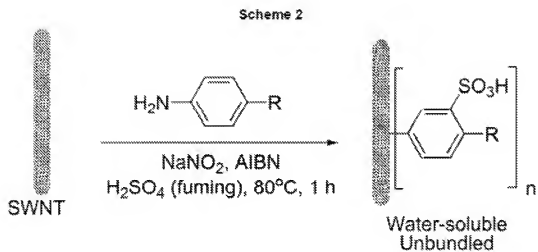


Fig. 3

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REPLACEMENT SHEET

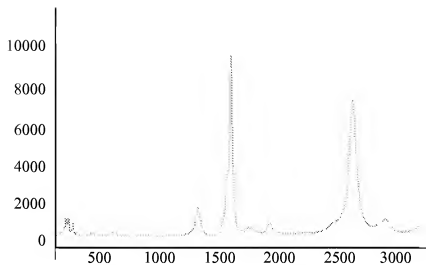


Fig. 4

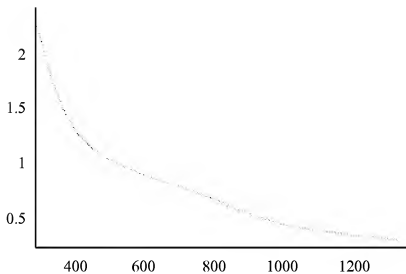
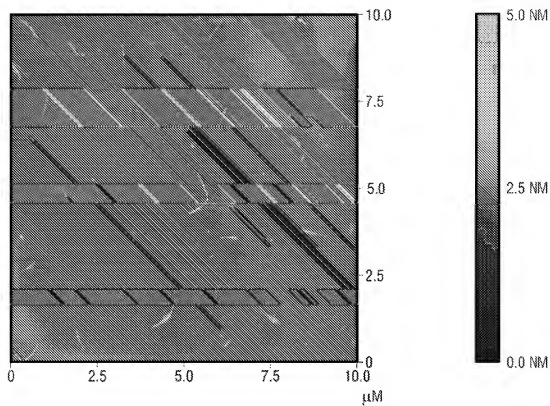


Fig. 5

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REPLACEMENT SHEET



|                     |                     |
|---------------------|---------------------|
| DIGITAL INSTRUMENTS | NANOSCOPE           |
| SCAN SIZE           | 10.00 $\mu\text{M}$ |
| SCAN RATE           | 0.9997 HZ           |
| NUMBER OF SAMPLES   | 512                 |
| IMAGE DATA          | HEIGHT              |
| DATA SCALE          | 5.000 NM            |

**FIG. 6**

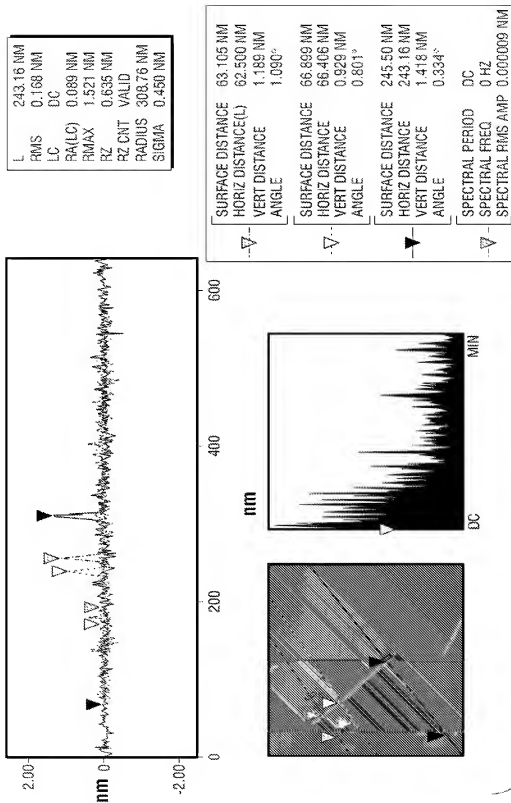


FIG. 7

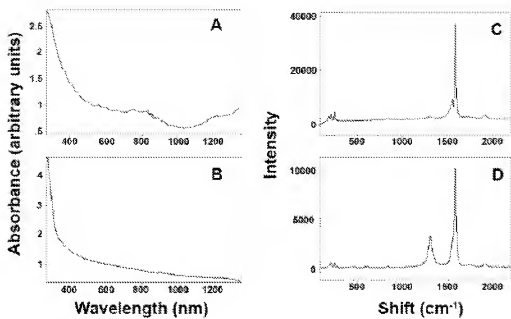
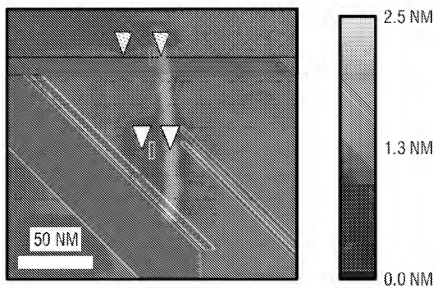
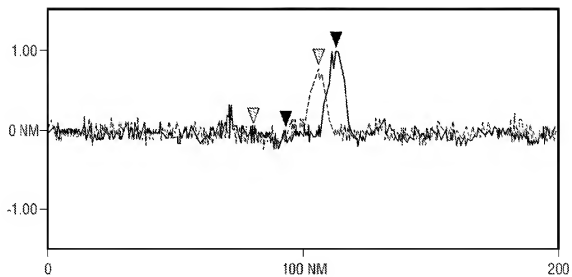


Fig. 8

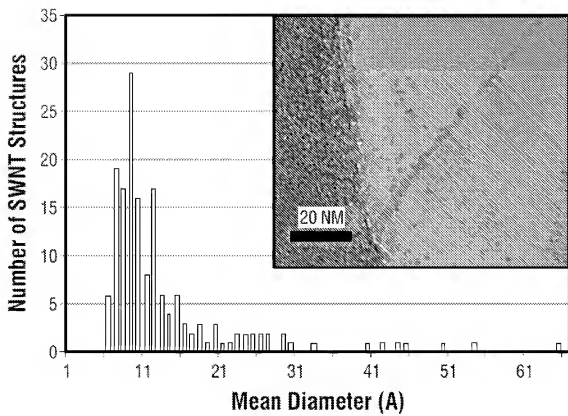


**FIG. 9A**



**FIG. 9B**





**FIG. 10**

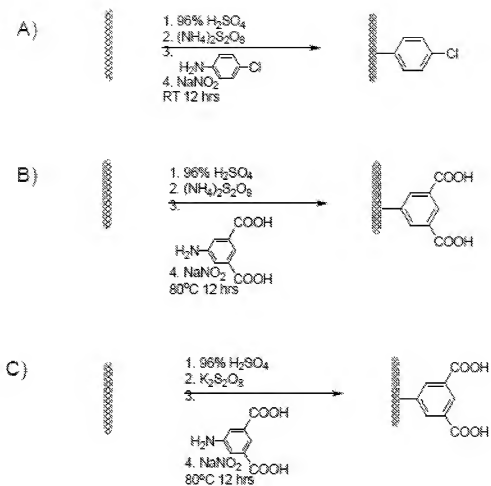
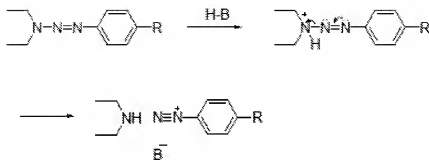


Fig. 11

Scheme 3



H-B = Acidic Media

Fig. 12

Scheme 4

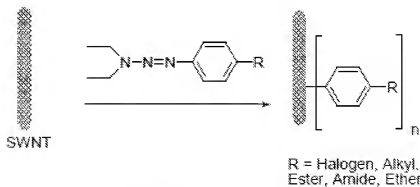


Fig. 13